A STATE-DELAYED TECHNIQUE TO REMOVE TONES OF DYNAMIC ELEMENT MATCHING

ABSTRACT OF THE DISCLOSURE

A filter structure used with a dynamic element matching encoder for a sigma-delta digital-to-analog converter is presented. A sampled input sequence having undesired frequency tones is divided into even and odd data sub-sequences. Each of the sub-sequences is processed by a dynamic element matching encoder, with a transfer function $H(z^{-1})$. The resulting processed sub-sequences are combined into an output sequence. The undesired frequency tones are substantially reduced in the output sequence.

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